

1 Fill the gaps using the correct form of the word in brackets at the end of each sentence.

10 marks

Example: The fault was caused by an insecure connection. (connect)

- 1 Workshops can be dangerous so _____ procedures are essential. (safe)
- 2 Technicians need to ensure that all components are fully _____. (operate)
- 3 Radio contact can sometimes be affected by _____. (interfere)
- 4 _____ components must be checked regularly. (electric)
- 5 _____ procedures must be followed carefully. (maintain)
- 6 Avionics equipment should be fine-tuned for optimum _____. (perform)
- 7 TCAS stands for traffic alert and collision _____ system. (avoid)
- 8 In the old days, radio _____ aids were not very accurate. (navigate)
- 9 Most aircraft carry a flight data _____. (record)
- 10 In the case of electrical system _____, a warning light comes on. (fail)

2 These indirect questions all have a mistake in the word order. Write them with the correct word order.

10 marks

Example: The pilot needs to know when is there a potential emergency situation.
*The pilot needs to know when **there is** a potential emergency situation.*

- 1 To prevent overheating, you need to know what is the temperature.
- 2 By checking the altimeter, the pilot can see what is the height of the plane.
- 3 The crew didn't know where was the fault.
- 4 The weather report informs the pilot if is there bad weather.
- 5 Pilots need to know how can weather conditions affect the safety of the flight.
- 6 The fuel gauge tells the pilot how much fuel is there in the tanks.
- 7 Radar enables the pilot to check how near are other aircraft.
- 8 Air traffic control asked the pilot what was his position.
- 9 The pilot needs to know what is the exact position of his aircraft.
- 10 The maintenance crew found where was the problem.

3 Choose one of the two verb forms to complete the sentences.

10 marks

- 1 The message *transmits / is transmitted* every 12.5 minutes.
- 2 Military time *is written / writes* in four digits.
- 3 The pilot *is selected / selects* an emergency radio frequency manually.
- 4 GPS works by *calculate / calculating* the distance to the satellite.
- 5 It is important *keeping / to keep* a safe distance between aircraft in flight.
- 6 Digital instruments *do not have / are not having* any moving parts.
- 7 Analogue devices are more likely *to affect / to be affected* by extremes of temperature and pressure.
- 8 An analogue voltmeter has a needle which *moves / has moved* from one position to another.
- 9 Digital instruments *become / are becoming* more and more popular.
- 10 They are simpler *to repair / to be repaired* than analogue instruments.

4 Fill the gaps in the sentences using prepositions.

10 marks

- 1 Pilots need to communicate _____ the ground at regular intervals.
- 2 They also need to have accurate information _____ weather conditions.
- 3 Whether a plane can fly at all can often depend _____ weather conditions.
- 4 The crew are responsible _____ checking the instruments are functioning correctly.
- 5 Controllers have to ensure that there is a minimum gap _____ two aircraft.
- 6 The amount of air traffic has increased _____ 40% in the last 10 years.
- 7 If there is a fault _____ the system, it must be repaired immediately.
- 8 A gyro compass consists _____ electrical, mechanical and electronic components.
- 9 The accuracy of GPS can be affected _____ atmospheric conditions.
- 10 The system calculates the distance _____ A and B.

5 Complete the questions using the words in the box and the pictures to help you.

10 marks

analogue meter instruments circuit components flight digital
board diagram electricity



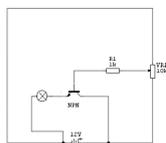
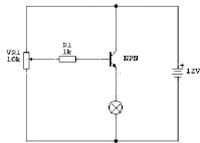
1 How many _____ are needed to fly a plane?
For a small light aircraft, only six are necessary.



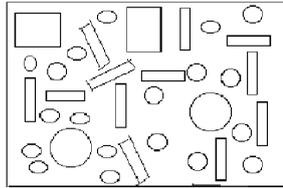
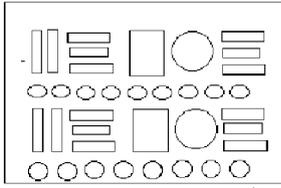
2 Why are _____ watches better than _____ watches?
Because they are cheaper and more accurate.



3 Why does an _____ have a digital scale?
Because it is easier to read.



4 Which _____ is clearer?
The first one. The second one isn't easy to interpret.



5 Why is it important to put the _____ in the right place on a circuit _____?

Because there can be electronic interference between them if they are not in the correct position.

6 Read this job description carefully and put in the missing words.
The first and last letter of each word has already been written.

10 marks

An avionics technician has to:

- 1 set up and operate ground support and test equipment to perform functional flight tests of electrical and e _ _ _ _ _ c systems.
- 2 test and t _ _ _ _ _ t instruments, components, and assemblies, using circuit testers, oscilloscopes, and voltmeters.
- 3 keep records of m _ _ _ _ _ e and repair work.
- 4 coordinate work with that of engineers, t _ _ _ _ _ s and other aircraft maintenance personnel.
- 5 i _ _ _ _ _ t flight test data in order to diagnose malfunctions and systemic performance problems.
- 6 i _ _ _ _ l electrical and electronic components, assemblies, and systems in aircraft, using hand tools, power tools, and/or soldering irons.
- 7 adjust, repair, or r _ _ _ _ e malfunctioning components or assemblies, using hand tools and/or soldering irons.
- 8 connect components to assemblies such as r _ _ _ o systems, instruments, magnetos, inverters, and in-flight refuelling systems, using hand tools and soldering irons.
- 9 assemble c _ _ _ _ _ s such as switches, electrical controls, and junction boxes, using hand tools and soldering irons.
- 10 f _ _ _ _ _ e parts and test aids as required.